

Name: _____

- 1) Simplify: $\frac{\sqrt{48}}{\sqrt{3}}$
 A) 4 B) 8 C) 16 D) $\frac{4\sqrt{3}}{3}$
- 2) Simplify: $(2\sqrt{3} - 3\sqrt{2})^2$
 A) -6 B) $-6 - 6\sqrt{6}$ C) $30 - 12\sqrt{6}$ D) $-6 - 12\sqrt{6}$
- 3) $5\sqrt{2}$ is equal to the square root of
 A) 75 B) 50 C) 10 D) 25
- 4) If $(\sqrt{128} - \sqrt{72})$ is divided by $\sqrt{8}$, the result is
 A) $\sqrt{7}$ B) 1 C) $8\sqrt{2} - 3$ D) $4 - 6\sqrt{2}$
- 5) Simplify: $2\sqrt{3}(3\sqrt{6} - 3\sqrt{3})$
 A) $12\sqrt{3} - 18$ B) $3\sqrt{6} - 6\sqrt{3}$ C) 18 D) $18\sqrt{2} - 18$
- 6) Simplify: $4\sqrt{12} + 3\sqrt{48}$
 A) $5\sqrt{48}$ B) $7\sqrt{60}$ C) $10\sqrt{12}$ D) $20\sqrt{3}$
- 7) Simplify: $4\sqrt{18} + 3\sqrt{75} + 2\sqrt{45} - 2\sqrt{50}$
 A) $2\sqrt{2} + 15\sqrt{3} + 6\sqrt{5}$ C) $23\sqrt{3} + 2\sqrt{5}$
 B) $11\sqrt{188}$ D) $18\sqrt{3} + 5\sqrt{5}$
- 8) Simplify: $\sqrt{18}$
- 9) Simplify: $\sqrt{a^2b^3}$

10) Simplify: $\sqrt{36x^7y^2}$

11) Combine and simplify: $\sqrt{32} + \sqrt{8}$

12) Combine and simplify: $3\sqrt{4a^3} - 6\sqrt{9a^3}$

13) Simplify: $4\sqrt{3} \cdot 2\sqrt{8}$

14) Simplify: $\sqrt{3ac} \cdot \sqrt{12a^2c}$

15) Simplify: $\sqrt{60} \div \sqrt{5}$

16) Simplify: $\frac{6}{\sqrt{3}}$

17) Simplify: $\frac{4}{6\sqrt{2}}$